

### Patent claims

1. Light sensor to record the position of a light source (1)

5 - with a photo detector (2),

- with a light modulator (3) to modulate the quantity of light

hitting the photo detector (2) depending on the incident angle

( $\alpha$ ) of the light of the light source (1) on the sensor,

- whereby light hitting the sensor from the outside essentially

10 falls on the photo detector (2) without dispersion.

2. Light sensor according to claim 1,

which is equipped with a sealing cap (4).

15 3. Light sensor according to one of the claims 1 or 2, whereby an

absorption element (5) is installed in the path of rays (101, 102, 103, 104) of the incident

light.

4. Light sensor according to one of the claims 1 to 3, whereby the

20 absorption element (5) represents a disk between the photo detector (2) and the modulator

(3).

5. Light sensor according to one of the claims 1 to 4,

Whereby the light modulator (3) is transparent block which is provided with a cavity (6) from the side where the light comes in.

6. Light sensor according to claim 5,

5 whereby the cavity (6) features disk-shaped superposed areas (81, 82, 83) of which each contains cone-shaped side walls.